

ROCKY FLATS PLANT
EMD OPERATING
PROCEDURES MANUAL

Manual No.: 5-21000-OPS-GT
Procedure No.: Table of Contents, Rev 9
Page: 1 of 3
Effective Date: 12/03/91
Organization: Environmental Management

THIS IS ONE VOLUME OF A SIX VOLUME SET WHICH INCLUDES:
CONTROLLED DOCUMENT
EG&G — ROCKY FLATS PLANT
ENVIRONMENTAL MANAGEMENT
VOLUME I: FIELD OPERATIONS (FO)
VOLUME II: GROUNDWATER (GW)
VOLUME III: GEOTECHNICAL (GT)
VOLUME IV: SURFACE WATER (SW)
VOLUME V: ECOLOGY (EE)
VOLUME VI: AIR (AP)
This is a RED stamp

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FOR VOLUME III: GEOTECHNICAL

<u>New Proc. No.</u>	<u>Old Proc. No.</u>	<u>Title</u>	<u>Rev. No.</u>	<u>Effective Date</u>
GT.01	3.1	Logging Alluvial and Bedrock Material	1	8/30/91
DCN 91.01		Recording lithologic descriptions and securing core boxes	1	11/15/91
DCN 91.02		Clarification of log approval for multi-use wells	1	12/03/91
GT.02	3.2	Drilling and Sampling Using Hollow Stem Auger Techniques	1	8/30/91
DCN 91.01		Unconsolidated core samples need not be peeled before sampling	1	10/29/91
DCN 91.02		Correction of well location for low Alluvial thickness	1	11/6/91
DCN 91.03		Ten foot long core barrels	1	11/15/91
GT.03	3.3	Isolating Bedrock From the Alluvium with Grouted Surface Casing	1	8/30/91
DCN 91.01		Change in criteria for cement grouting	1	10/02/91
DCN 91.02		Grout procedure clarification	1	10/28/91

ADMIN RECORD

REVIEWED FOR CLASSIFICATION/UCNL

By F. J. Curran U-110

Date 1-6-92

A-SW-001102

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GT.04	3.4	Rotary Drilling and Rock Coring	1	8/30/91
DCN 91.01		Core barrel decontamination	1	10/22/91
DCN 91.02		Clarification of measuring tape decontamination requirements	1	10/29/91
DCN 91.03		Clarification of the use of super gel-x	1	12/03/91
GT.05	3.5	Plugging and Abandonment of Boreholes	1	8/30/91
DCN 91.01		Surface casing classification	1	10/22/91
GT.06	3.6	Monitoring Wells and Piezometer Installation	1	8/30/91
DCN 91.01		Industry Standard is 1 foot into Bedrock	1	10/15/91
DCN 91.02		For the Sitewide Program, Claystone Smearing does not seem to be a problem	1	10/15/91
DCN 91.03		Superseded by DCN 91.06	1	11/08/91
DCN 91.04		Low Alluvial thickness wells	1	11/06/91
DCN 91.05		Superseded by DCN 91.08	1	11/06/91
DCN 91.06		Change in filter pack guidance	1	11/08/91
DCN 91.07		Decontamination for site-wide geological characterization	1	11/15/91
DCN 91.08		Figure replacement (GT.6-1)	1	11/15/91
DCN 91.09		Sampling with center bit drilling	1	12/03/91
GT.07	3.7	Logging and Sampling of Test Pits and Trenches	1	8/30/91

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GT.08	3.8	Surface Soil Sampling	1	8/30/91
DCN 91.01		Clarification supplementation of GT.08 - Surface Soil Sampling	1	11/26/91
GT.09	3.9	Soil Gas Sampling and Field Analysis	1	8/30/91
GT.10	3.10	Borehole Clearing	1	8/30/91
GT.11	3.11	Plugging and Abandonment of Wells	1	8/30/91
GT.15	3.15	Geophysical Borehole Logging	1	8/30/91
DCN 91.01		No Hole will be left Unlogged at the end of the day	1	10/15/91
GT.17	3.17	Land Surveying	1	8/30/91
GT.18	3.18	Surface Geophysical Surveys	1	8/30/91
GT.19	3.19	Field Gas Chromatographs	1	8/30/91
GT.20	3.20	Procedures for Soil Interstitial Water Sampling and Sampler Installation	1	8/30/91

ENVIRONMENTAL MANAGEMENT DOCUMENT CHANGE NOTICE (DCN)

Procedure Number 5-21000-OPS-GT.6 Rev 1.

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Title Monitoring Wells and Piezometer Installation		This is a CONTROLLED DOCUMENT		Date 11-25-91		DCN Number 5-21000-OPS-GT.06 91.09	
Expires <u>3/2/92</u>		Procedure Revision Required		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Scope Limitation <u>ENVIRONMENTAL MANAGEMENT DEPARTMENT</u>							
This is a RED Stamp							
Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Space)				
1	6 of 17	1	Add to the end of the first paragraph "If a center bit needs to be used during coring of the alluvium, a drive sample may be taken after the interval is drilled to ascertain if the bedrock/alluvial contact has been reached. After a maximum of a one foot drive sample, coring will resume if indicated." <i>Ensure this is noted on the applicable log and/or turn. 12/3/91</i>				
<p>Justification (Reason for Change – Provide Numbers To Reference Corresponding Items Above)</p> <p>Taking a drive sample immediately after drilling with a center bit in instances where the bedrock/alluvial contact is believed to be very close to the drilled interval will ensure that the contact is recovered.</p>							
Concurrence		Organization	Req	Date	Concurrence	Organization	Req
<i>[Signature]</i>		QAPM	X	12/3/91	<i>[Signature]</i>	User	X
<i>[Signature]</i>		EOM	X	12/2/91			
Approval of Responsible Manager			Date		Is Posting Req'd?		If Yes, By What Date?
<i>[Signature]</i>			11/27/91		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
							Date Posted